

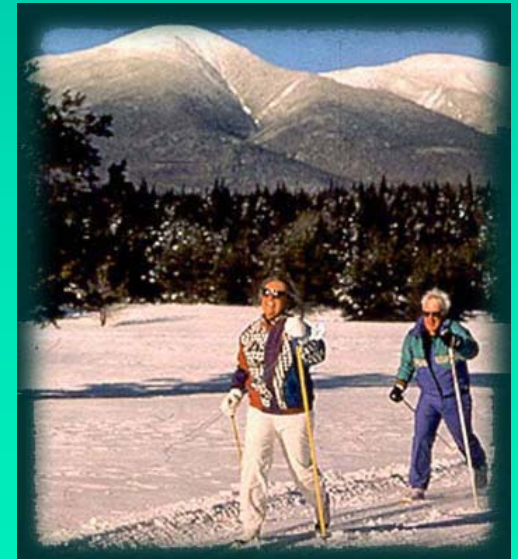
Turning Off the Engine --

New Hampshire's Idling Reduction Campaign

**N.H. Department of Environmental
Services**

Air Resources Division

www.des.nh.gov



Options to Reduce Emissions from Cars and Trucks

- New engine standards and technologies, higher fuel economy
- Alternative Fuels, including biodiesel
- Anti- idling and voluntary compliance efforts



New Hampshire's Approach – Outreach and Education

- Compliance Assistance Program for Fleet Owners and Operators – Smoke Opacity and Idling for Truck Fleets
- N.H. Clean School Bus Idling Reduction Campaign
- NH Hospital Association's anti-idling campaign
- Overall anti-idling campaign for everyone.



Diesel exhaust – Why worry?

- Diesel exhaust contains harmful pollutants
 - Particulate matter (“PM” or small particles) penetrates deep into lungs
 - Linked to asthma and other significant health problems (decreased lung function, heart disease)
 - Classified by Federal agencies as a probable human carcinogen
- Diesel exhaust (and other mobile source emissions) can get into buildings:
 - Air intakes, windows, doors
 - From buses, delivery vehicles, cars



Health and Environmental Effects of Diesel Exhaust

- Offensive odor of diesel exhaust.
- NO_x contributes to ozone formation (smog) – a respiratory irritant.
- NO_x and sulfur dioxide contribute to acid rain.
- Small particles contribute to haze which restricts visibility.
- CO₂ contributes to global climate change.



Why worry about trucks?

Did you know that

- The average truck sits idling for up to 2,500 hours a year.
 - This equates to a yearly cost of \$4,000
 - This is equivalent to an additional 200,000 miles in terms of engine wear
- One hour of idling burns a gallon of diesel fuel.
- Just by idling, on the national level trucks produce:
 - 10 million tons of carbon dioxide
 - 60,000 tons of nitrogen oxides
 - 100,000 tons of carbon monoxide



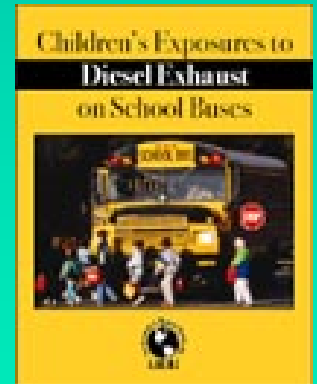
NH's Approach – Focus on the Benefits of Not Idling

- Saves fuel and money
- Reduces wear and tear on engine
- Reduces pollution
- Improves air quality in immediate vicinity
- Protects health of passengers and drivers
- Good neighbor policy!



Why School Buses?

- Diesel Exhaust is more harmful to children
 - Respiratory systems are not fully developed.
 - Children breathe 50 percent more air per pound of body weight than adults.
- Children with asthma are susceptible to even very slight increases in small particle levels.
- Number 1 recommendation – **REDUCE IDLING!**

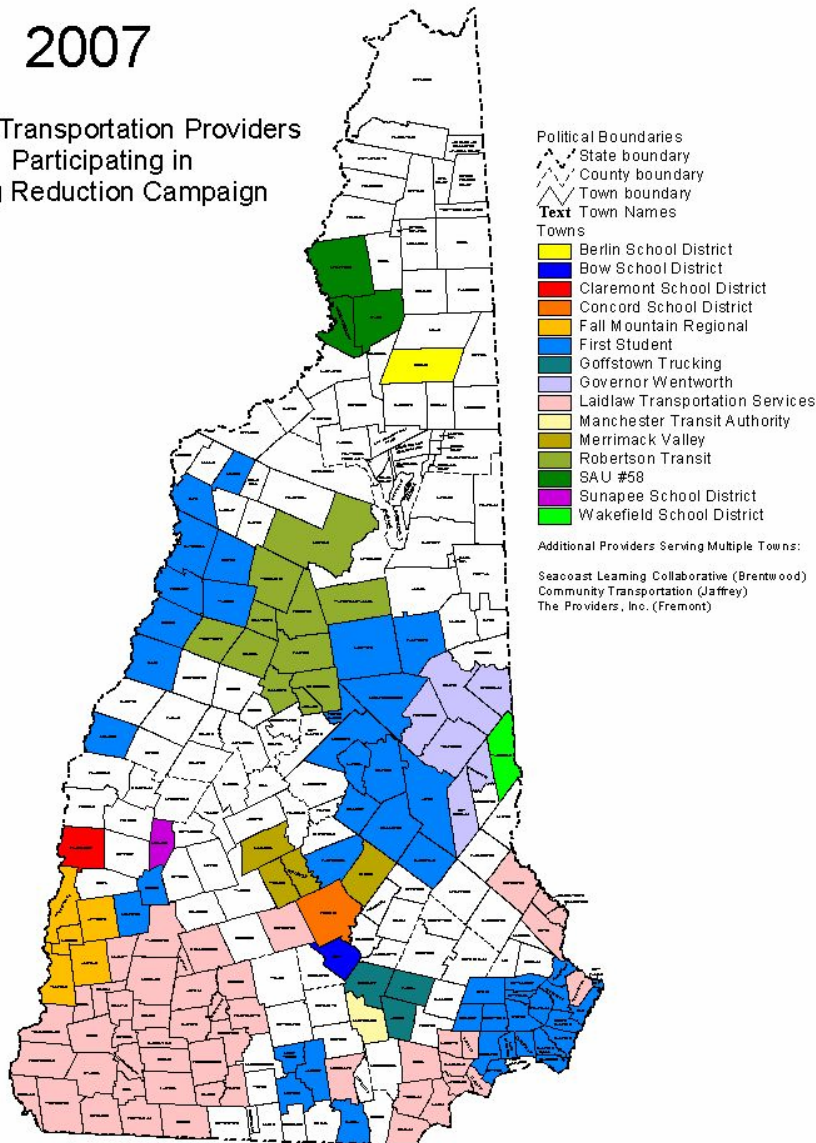


A win-win opportunity for everyone!

New Hampshire Clean School Bus Initiative

2007

School Transportation Providers
Participating in
Idling Reduction Campaign



Updated February 26, 2007

Results, to date in 2007:

-- 1,629 vehicles

-- 63 % of NH's school transit providers have agreed to limit idling.

Why focus on Ski Areas?



**Help Preserve and Protect our
Natural Environment, Health and
Way of Life!**



Suggested Idling Reduction Guidelines for Ski Areas

- Sample Idling Policy *(at display table)*
- Fleet Vehicles and Equipment
- Commercial Buses, Passenger Vehicles
- Develop Industry-Specific Outreach Materials
- Extend beyond your facility – into the Community
- Partner with other businesses / organizations
- Being “Green” is good for business!



Key points of Recommended Guidelines

- Based on NH State Regulations (Env-A 1100)
- Follow manufacturers' suggestions for warm-up or cool-down times
- Maximum idling times based on outside temperatures



Reducing Idling is Easy and Cost Effective!

- When idling is necessary, limit according to state regulations
 - Above 32° idle no more than 5 minutes
 - Between -10° and 32° no more than 15 minutes
 - Below -10° no limit

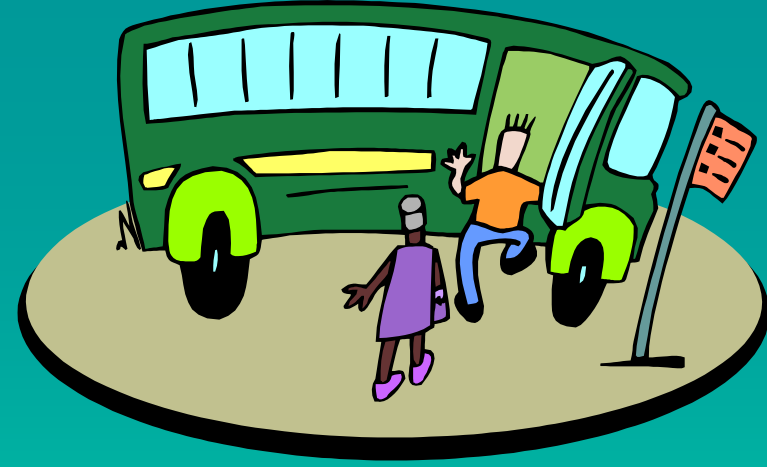


Additional Suggestions

- Install auxiliary power units when possible.
- Consider retrofits for vehicles or equipment.
- Post no idling signs at loading or unloading areas or delivery areas to remind drivers to turn engines off.
- Encourage all drivers – bus drivers and others – to turn off engines as soon as they arrive in the “Clean Air Zones.”





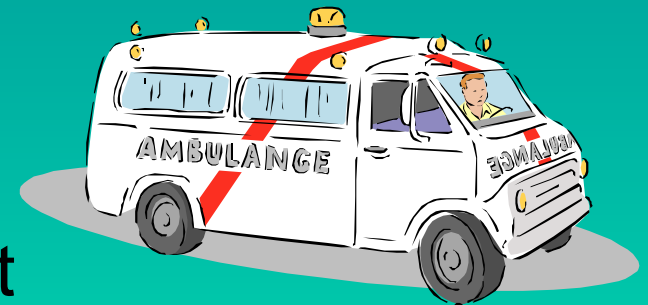


- Do not allow engines to idle while discharging or waiting for passengers.
- Extend your idling reduction campaign to the larger community!
- Encourage partnerships for Clean Air Zones!

Make your ski area, business campus, school, or community a “Clean Air Zone”

Exemptions may apply...

- Because of traffic conditions.
- To defrost windows.
- For emergency vehicles.
- To power refrigeration units, lift gates or auxiliary units.
- To supply heat or A/C necessary for passenger comfort in commercial passenger vehicles (i.e., buses).
- During maintenance and/or mechanical diagnostics.



Reducing Idling is Easy and Cost Effective!

- Limit idling time during vehicle warm up (generally 1 – 3 minutes in winter) and follow manufacturer's guidelines for proper warm-up and cool-down procedures.
- Turn engines off when you reach your destination and whenever you are parked for more than 10 seconds (use common sense!).



What's Next for NH?

- More efforts at the local level – schools, government, businesses, hospitals, and SKI AREAS.
- Increased efforts at truck and bus stops, delivery areas, and refueling sites.
- More emphasis on “anti-idling” campaign for everyone!



What You Can Do

- Implement Idling Reduction practices at your ski area, business, and at home.
- Identify barriers and be creative problem solvers.
- Follow idling restrictions when possible – *Take the Pledge to reduce idling!*
- Keep up the good work!

Be a "Clean Air" Driver!



Pledge to Reduce Idling

I _____ pledge to:

1. Turn the engine off whenever possible.
2. Limit morning start-up time (generally 1 to 3 minutes in winter) and follow manufacturer's guidelines for proper warm-up and cool-down procedures.
3. Follow state regulations when idling is necessary.
4. Learn more about implementing idle-reduction programs and policies at my business and in my community.

Signed: _____.

Date: _____.

City and State: _____.

Take the Pledge!



It's as easy as 1, 2, 3. . .

**Let us know how we can
help!**

????



Thank you!

The End

For More Information. . .

Barbara Fales

603-271-1390

bfales@des.state.nh.us

or

Kathy Brockett

603-271-6284

kbrockett@des.state.nh.us

